

Highway Hubcap Hunt

While stuck in traffic, we need to find a way to pass the time. so we have come up with the Highway Hubcap Hunt. In this game, you and your partner will need to be the first to identify a hubcap that possesses rotational symmetry. To gain extra points, you must also be able to name the angle of rotation!

To help you get used to the game, we have 5 hubcaps for you on a separate practice sheet. For each hubcap, you and your partner must decide which hubcaps have rotational symmetry.

If a hubcap *does not* have rotational symmetry, explain why.

If a hubcap *does* have rotational symmetry, you and your partner will need to:

1. Count the number of rotations before being back at the original figure.
2. Find the angle of rotation.

Record all your results in the table below.

Hubcap	A	B	C	D	E
Does it have rotational symmetry? (yes/no*)					
Count the number of rotations before returning back to the original figure.					
Find the angle of rotation.					
* If you answered no, explain why the hubcap does not have rotational symmetry.					

Describe any interesting findings. Can you find the angle of rotation without measuring?

What happens to all the elements of a figure when it is rotated - what changes and what stays the same?

A



B



C



D



E

